

APPARATUSES FOR TREATING BIOLOGICAL TISSUE TO MITIGATE CALCIFICATION

Abstract of the Disclosure

5 An apparatus for treating fixed biological tissue to inhibit calcification of the
biological tissue following implantation thereof in a mammalian body. The apparatus
includes a container for placing the biological tissue in contact with a treatment solution,
structure to induce relative tissue/solution movement, and structure to heat the solution.
The relative movement may be induced by shaking a container in which the tissue is
10 immersed in the treatment solution, or by stirring the solution within the container. The
movement may also be induced by flowing a treatment solution past the tissue to be
treated. The tissue may be free to move in the treatment container, or may be restrained
from gross movements. The flow may be part of a circulation system having a reservoir,
with a heater being provided to heat the treatment solution in the reservoir. Alternatively,
15 a treatment apparatus, including a fluid circulation system if desired, may be enclosed in
an incubator. The tissue may be mounted in a planar configuration generally parallel to
the direction of fluid flow. A flow column having a plurality of sections divided by
perforated baffles may be used to treat multiple tissues at once.

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